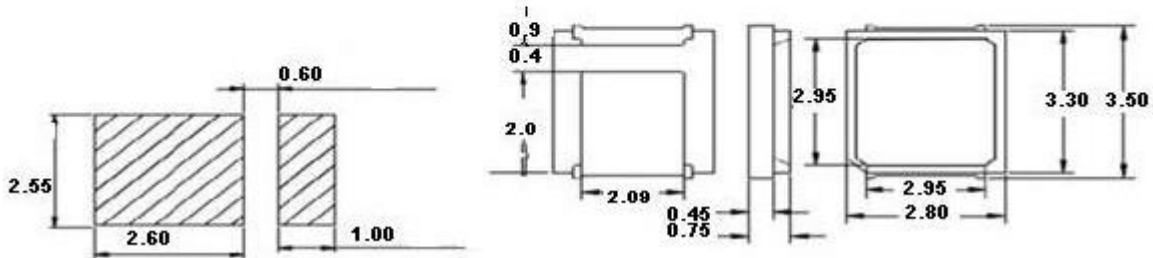


Data Sheet no. 119 SMD LED 0.5W 18VOLT KL2835W/WW-70-75Lm

Features:

- Popular 2835 package with thermal pad
- Extremely wide viewing angle
- Suitable for Reflow Solder Process & SMT Assembly
- Available on Tape and reel.
- Moisture sensitivity level: Level 4
- RoHS compliant (RoHS).



Extremely Cost Effective for TubeLights/Bulbs

Part No.	Dice	Encapsulation Color	Luminous Int (mcd) @30mA		Luminous Flux (lm) @30mA		Viewing Angle
			Min	Typ	Min	Typ	2q 1/2
KL2835W	White	Yellow	6500	7100	70	75	120
KL2835WW	Warm White	Diffused	2700	3000	65	70	120

Absolute Maximum Ratings at Ta = 25° C

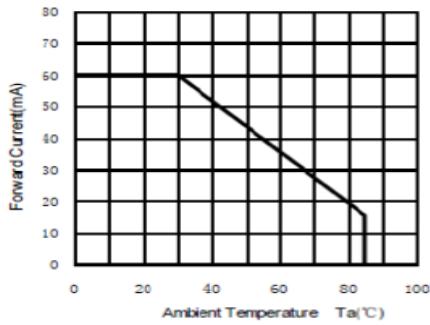
Parameter	Symbol	Rating	Units
Power Dissipation	Pd	600	mW
Peak Forward Current (I) 10% Duty	I _{fp}	100	mA
Forward current	I _f	35	mA
Reverse Voltage	V _R	5	V
Electrostatic Discharge (HBM)	ESD	1000	V
Operating temperature	T _{opr}	~40 ~+85	°C
Storage Temperature	T _{stg}	~ 40 ~ +100	°C

Electrical/ Optical Characteristics At Ta =25- °C

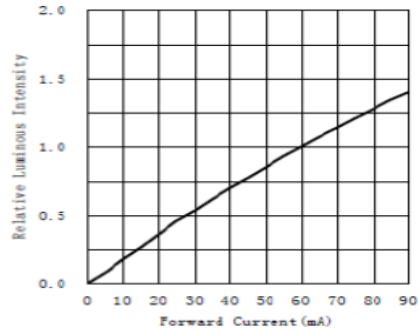
Parameter	Symbol	Min	Typ	Max	Units	Test Conditions
Forward voltage	V _f	18.0	19	20	V	I _f =30mA
Reverse Current	I _R	--	--	10	uA	V _R =5V
Color Temperature	TC	--	6000/3000	--	K	I _f =30mA
Color Rendering Index	CRI	80	---	82	Ra	I _f =30mA

Typical optical characteristics curves

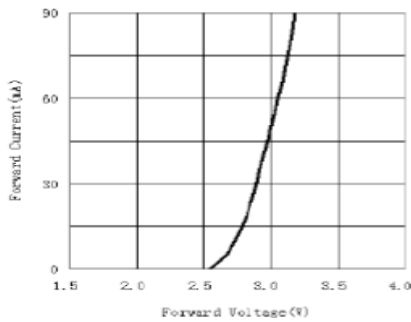
Ambient Temperature vs. Forward Current



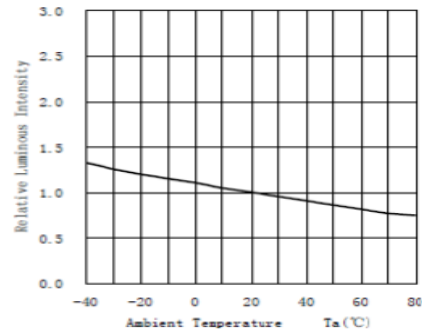
Forward Current VS. Relative Intensity



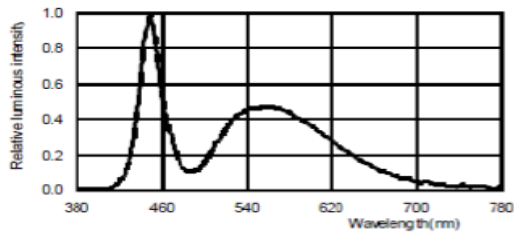
Forward Voltage VS. Forward Current



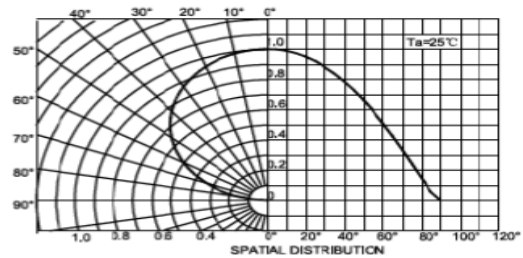
Ambient Temperature VS. Relative Intensity



Relative spectral emission



Radiation diagram



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